INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/000899

	PC1/AU20	U4/UUU899					
A.	CLASSIFICATION OF SUBJECT MATTER .						
Int. Cl. 7:	B22F 9/18, 9/20, C22C 14/00, 21/00, 45/08, 45/10, C01F 7/00, C01G 23/00						
According to	International Patent Classification (IPC) or to both national classification and IPC						
B.	FIELDS SEARCHED						
Minimum doc	umentation searched (classification system followed by classification symbols)						
		•					
Documentano	n searched other than minimum documentation to the extent that such documents are included in the fields sea	arched					
Electronic data	a base consulted during the international search (name of data base and, where practicable, search terms used)						
Ti/titanium a	9/-, C22B 5/04, 34/10, 34/12; C22C 1/00, 1/04, 1/05, 21/-, 14/-; C01F 7/00, 23/00 and keywords found +chloride+. Chemical Abstracts Online keywords as above with the	r Al/Aluminium,					
C.	control of the state of the sta	rs and reduction.					
	DOCUMENTS CONSIDERED TO BE RELEVANT	•					
Category*	Citation of document, with indication, where appropriate, of the relevant passages						
X	OKAPE et al IIParti. P. I	Relevant to claim No.					
	OKABE, et. al., "Reaction Pathways during Metallothermic Reduction of TiCl ₄ by Utilizing Chemical Potential Diagrams," <i>Titanium Extracting and Processing</i> , editors	1-6, 8-26,					
	1007 P. Musika and G. J. Kipouros, The Minerals, Metals and Materials Society, 1007	28-42					
	pp 133-150, See especially pp. 147-150 (note in particular the phase diagram for the Ti subchloride						
	1 dystems on pages 146-149).						
X	Derwent Abstracts Accession No. 58145Y/33, Class E32, JP 52-078608 A (ARITA						
	KENKYUSHO KK) 2 July 1977. See Abstract						
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	(TITANIUM MAGNESIUM RESEARCH INST. STOCK. CO.) 27 June 1997.						
	See Austract	28-42					
X F	urther documents are listed in the continuation of Box C X See patent family an						
		nex					
"A" documer	categories of cited documents: at defining the general state of the art which is "T". later document published after the international filing date or conflict with the application has a state of the conflict with the application has	priorite data and					
	underlying the invention	iple or theory					
	opplication or patent but published on or after the onal filing date "X" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the	ot be considered nove					
"L" documen	ant which may throw doubts on priority claim(s) h is cited to establish the publication date of citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other						
another c							
or other i	means "&" document member of the same patent family	skilled in the art					
"P" documen but later	it published prior to the international filing date than the priority date claimed						
Date of the actu	al completion of the international search Date of mailing of the international search	-					
21 July 2004	7.0	3 JUL 2004					
	Authorized officer						
PO BOX 200, V	PATENT OFFICE VODEN ACT 2606, AUSTRALIA	•					
z-maii address:	pct@ipaustralia.gov.au ROGER HOWE 02) 6285 3929						
acsimile No. (Telephone No: (02) 6283 2159						

INTERNATIONAL SEARCH REPORT

International application No.

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT						
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to				
X	DeKOCK, et. al., "Attempted Preparation of Ti-6-4 Alloy Powders from TiCl ₄ , Al, VCl ₄ and Na." Metallurgical Transactions P. V. 1, 1879.	claim No.				
	VCl ₄ and Na," Metallurgical Transactions B, Vol. 18B, September 1987, pp 511-517					
Х .	BARTLETT, et. al., "Titanium Powder by Magnesium Reduction of TiCl in Liquid Zinc Alloy," Light Metals 1994 (edited by U. Mannweiller), The Minerals, Metals and Materials Society, 1994, pp. 1181-1186. See in particular the final paragraphs on page 1186.					
X	TTC 5460642 A (T FT 4275)	{				
	US 5460642 A (LELAND) 24 October 1995. See abstract.	1-6, 8-26,				
	bee abstract.	28-42				
•	TTG 5000475	-5.12				
X	US 5032176 A (KAMETANI et. al.) 16 July 1991.	16000				
	See column 12 lines 51-68.	1-6, 8-26, 28-42				
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X	WO 1992/014851 A (THE UNIVERSITY OF MELBOURNE) 3 September 1992.	16006				
		1-6, 8-26, 28-42				
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X	EP 134643 A (SOLEX RESEARCH CORPORATION OF JAPAN)					
	20 March 1985.	1-6, 8-26,				
		28-42				
•		·				
X	DE 2747016 A (TOYO SODA MANUFACTURING CO. LTD.) 27 April 1978. &					
	Derwent Abstracts Accession No. 32433A/18, Class E32.	1-6, 8-26,				
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X	Derwent Abstracts Accession No. 2001-592638/67, Class M22, JP 2001-192711 A					
	(TOHO TITANIUM CO. LTD.) 17 July 2001.	1-6, 8-26,				
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X	US 4508322 A (KIMURA et al) 2 April 1985					
	See Abstract	29-31				
X	EP 97135 A (ISHIZUKA) 28 December 1983					
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x	GR 1566262 A (VISTO)					
	GB 1566363 A (VSESOJUZNY NAUCHNO-ISSLEDOVATELSKY I PROEKTNY INSTITUT TITANA et al) 30 April 1980	29-31				
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X	EP 298698 B1 (TOHO TITANIUM CO. LTD.) 11 January 1989	20.01				
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This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Patent Family Member			
JР	52078608						
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US	5460642	AU	21595/95	WO	9525824		
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В	1566363			110	831930	US	4565354
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Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX